

Artificial Earth Satellites, by Yu. A. Pobedonostov
23 pp. UNCLASSIFIED

RUSSIAN, monograph. Iskusstvennyy Sputnik Zemli.
Moscow, 1957, pp 58-71.

US JPRS/HY-263

CSO 1382

59,362

Sci - Space Research
Feb 58

1958

ISKUSSTVENNYE SPUTNIKI ZEMLI
(Artificial Earth Satellites -
3 issues/year)

Translation of 1958 up to and
including 1963, Vols. 1-6
In bookform as "Cosmic Research".
From 1964, see: "KOSMICHESKIE

ISSLEDOVANIYA"

Order from: Plenum Publishing Corporation
227 West 17th Street
New York, N.Y. 10011

1963: \$ 50.00/year
\$ 30.00 single issues
\$ 15.00 single article reprints
add \$ 5.00 on overseas subscription

Rus
old

Petrov, V[iktor Pavlorich].
ARTIFICIAL SATELLITES OF THE EARTH. [1961]
298p. refs.
Order from GB \$9.50

Trans. of mono. [Iskusstvennyi Sputnik Zemli, Moscow, 1958].

Another translation is available from LC or SLA
ml\$11.10, pl\$47.10 as 60-13296, F-TS-9871/V.
Also available in part (p. 157-166, 202-203, 276-280)
from OTS \$0.50 as 59-11960 [1959] 12p.

DESCRIPTORS: *Satellite vehicles, *Satellite vehicle
research, Bibliography, USSR.

(Engineering--Satellite Vehicles, TT, v. 6, no. 6)

61-25104

I. Petrov, V. P.
II. Gordon and Breach,
Publishers, Inc.,
New York

176737

Office of Technical Services

Popular Science Library; Earth-Satellites,
by V. Petrov, 300 pp. UNCL

RUSSIAN, bk, STIskusstvennyy Sputnik Zemli,
Moscow, 1958, 306 pp.

ATIC P-TS-9871/V
AF 1187424 -- pp 206-221

Sci - Space Res
Telecom IC 41638

ATIC notified of ACS I H 2523
Aug 59

94,955

Artificial Satellites, by A. Shternfel'd, 424 pp.
UNCLASSIFIED

RUSSIAN, bk, Izobrazheniya Sputniki, Moscow,
1958, 300 pp. CIA 613362 V

OTS PB 14-351 T-20
ATIC F-TS-9570/V

Sci - Space Res
Jun 58

73,425

(Excerpt)
Military Application of Space Vehicles, by
V. P. Ponomarev, 7 pp. UNCL

RUSSIAN, bk, Industriy Sputnik Zemli, Moscow,
1958, pp 9, 29-30, 31, 32, 34, 229-254.

AF 1187421

Sci - Space Res
Feb 59

79,986

The Artificial Earth Satellite, by V. Petrov,
11 pp.

RUSSIAN, hr, Iskusstvennyy Sputnik Zemli, Moscow,
1958, pp 157-166, 202-205, 279-280.

ACSI, H-2523

Sci - Spac Res

Feb 59

81,524

Provision for Vital Conditions of Artificial
Earth Satellites, by V. Petrov, 11 pp.
UNCL

RUSSIAN, bk, Iskusstvennyy Sputnik Zemli,
Moscow, 1958, pp 205-221.

AF 1187424

Sci - Space Res
Feb 59

79,984

62-14012

Vernov, S. N., Vakulov, P. V. and others.
INVESTIGATION OF THE SOFT COMPONENT OF
COSMIC RAYS BEYOND THE LIMITS OF THE AT-
MOSPHERE (Izucheniye Myagkoi Komponenty Kos-
micheskikh Luchei za Predelami Atmosfery). [1962]
[20]p. (foreign text included). 62-14012
Order from OTS or SLA \$1.60

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1958
[v. 2] p. 61-69.

DESCRIPTORS: *Satellite vehicle research, *Radiation
counters, *Photons, *Cosmic rays, Gamma rays,
Electrons, Solar radiation.

(Astronomy--Astrophysics. TT, v. 8, no. 9)

- I. Title: Sputnik III
1. Vernov, S. N.
II. Vakulov, P. V.

Office of Technical Services

Artificial Earth Satellites

RUSSIAN, bk (?), Iskusstvennye Sputniki Zemli, No 1,
Rezul'taty Nauchnykh Issledovaniy, Provedennykh po
Programme mgg pri Pomoshchi Pervogo i Vtorogo
Iskusstvennykh Sputnikov Zemli

T of C being held by *Bollie Toivela*
various sections already available
1 Jul 1959

Artificial Earth Satellites, Edited by L. V.
Kurnosova, 236 pp.

RUSSIAN, bk, Iskusstvennye Sputniki Zemli,
Vol I, 1958.

Plenum Press
227 West 17th St
New York 11, New York

Sci - Space Res

Mar 60

Measurement of Cosmic Rays by AES, by S. H. Vernov,
N. L. Grigorov, Yu. I. Logachev, A. Ye. Chudakov.

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No. 1,
1958, pp 5-8.

IGY 35

CI 131632-35

Determination of the Density of the Atmosphere
According Observed Braking of the First AES,
by M. L. Lidov

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 1,
1958, pp 9-20

IGY 35

Determination of the Density of the Upper
Atmosphere According to Secular Changes in the
Elements of the Orbit of the First Two AES, *by*
P. Ye. El'yasberg

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 1,
1958, pp 21-24

IGY 35

The Motion of an Artificial Earth Satellite
Relative to its Centre of Mass, by V. V.
Belitskiy. UNCL

RUSSIAN, per, Iskusstvennyye Sputniki Zemli,
1958, pp 25-43.

RAF-824

Sci - Space Res
Jan 60

105,772

Utilization of the Doppler Effect for Determining
the Orbital Parameters of AES's by V. A. Kotel'-
nikov, V. M. Dubrovin, V. A. Morozov, O. N. Rzhiga,
A. M. Shakhovskoy ; Bpp

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 1,
1958 pp 50-61

46
JPRS/DC-287
MEX-24

AGE: 60
310/5114 T2121

Research on the Flight of a Living Creature in an
Artificial Earth Satellite, by V. H. Charnov,
V. I. Yakovlev, 7 pp. UKCL

RUSSIAN, per, Iskusstvennye Sputniki Zemli,
No 1, Moscow, 1958, pp 80 - 94

American Rocket Society Journal.
Oct 1959, Vol XXIX, No 10, Part I

Sci - Space Res
Nov 59

100,702

Artificial Earth Satellites

RUSSIAN, bk (?), Iskusstvennye Sputniki Zemli, No 2,
Rezul'taty Nauchnykh Issledovaniy, Poluchennye pri
Pomoshchi Tret'yego Iskusstvennogo Sputnika Zemli

T of C being held by Dollie
various sections already available
x 1 Jul 59

Artificial Earth Satellites, Edited by L. V.
Kurnosova, 236 pp.

RUSSIAN, bk, Iskusstvennye Sputniki Zemli,
Vol II, 1958.

Plenum Press
227 West 17th St
New York 11, New York

Sci - Space Res

mar 60

Dynamic Effects in the Motion of AES's, by L. I.
Sedov

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958 pp 3-9

JPRS/DC-287

*U.S. Army & Air Force
Vol 1, No 3, July 61
K. S. Sedov*

Measurements of Thermodynamic Parameters of the
Stratosphere With Aid of Meteorological Rockets,
by E. G. Shvidkovskiy, 3 pp. UNCL

RUSSIAN, per, Izvestiya Sputniki Zemli,
No 2, Moscow, 1958, pp 10-16.

100,701
American Rocket Society Journal
Oct 1959, Vol XXIX, No 10, Part I

Sci - Geophys
Nov 59

100,701

Disturbances of Gas Environment Caused by Satellite
Flight, by B. A. Mirtov, 9 pp. UNCLASSIFIED

152, 202. PP 17-26

RUSSIAN, papers presented at Moscow Conference of
CSAGI, Moscow, 1-9 Aug 1958.

US JPRS/DC-287

Sci - Geophys

JET Propul Lab 2

CIA-9044799

Dec 58

FDD X 3844

Preliminary Results of Determination of
Atmospheric Density Above 100 Kilometers, by
V. V. Mikhnevich, 10 pp. UNCL

RUSSIAN, per, *Iskusstvennyy Sputnik Zemli*,
No 2, 1959, pp 26-31.

US JPRS/DC-267

AP 1231316

Sci - Geophysics
Sep 59

96,263

Soviet Investigations of the Atmosphere Using
Rockets and AES's, by V. I. Krasovskiy

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 36-49

AF 1231316

*Planetary & Space Science
Vol 1, No 3, p. 61
Pergamon Press*

Preliminary Report on Geomagnetic Measurements
Carried Out With the Aid of the Third Soviet
Artificial Earth Satellite, by S. Sh. Dolginov,
L. M. Zhuzgov, N. V. Pushkov, 3 pp. UNCL

RUSSIAN, per, *Izvestiennyye Sputniki Zemli*,
No 2, 1959, pp 50-53. (papers presented at Moscow
Conference of CSAGI, Moscow, 1-9 Aug 1958.)

US JPRS/DC-287

AF 1231316

Sci - Geophys
Sep 59

96, 359
for the 4th Space Science
Conf. V. 163, Fall 1961
Washington, D.C.

Micrometeorite Studies Using Rockets and Satellites,
O. D. Komissarov, T. M. Nazarova, L. N. Neygodov,
S. M. Poloskov, L. Z. Rusakov, 3 pp. UNCL

RUSSIAN, per, *Iskusstvennyye Sputniki Zemli*, No 2,
1959, pp 54-58. (papers presented at Moscow
Conference of CSAGI, Moscow, 1-9 Aug 1958).

AF 1231316

US JPRS/DC-287

Sci - Geophys

Sep 58

96,251

Detection of Corpuscles With the Aid of the
Third AES, by V. I. Krasovskiy, Yu. M. Kushnir,
G. A. Bordovskiy, G. F. Zakharov

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 59-60. 1072-1111

56. A 60-21044

JPRS/DC-287

*Secretary of State
Vol 1, No 3, July 61
Kigamon Press*

Study of the Soft Components of Cosmic Rays
Beyond the Limits of the Atmosphere, by
S. N. Vernov, P. V. Vakulov, Ye. V. Gorchakov

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 61-69

JPRS/DC-287

Heavy Nuclei in Primary Cosmic Radiation, by
L. V. Kurnosova, L. A. Razorenco, M. I. Fradkin

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 70-74

JPRS/DC-287

(C) 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025

Solar Batteries, ^{by} V. S. Vavilov, A. P. Landsman,
V. K. Subashiyev

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 75-80

JPRS/DC-287

Acoustical Method of Measuring the Mechanical
Parameters of Meteorites, by M. A. Isakovich,
N. A. Roy.

RUSSIAN, bk, Iskusstvennye Sputniki Zemli, No 2,
1958, pp 81 -

JPRS/DC-287

Continued on next page

An Investigation of the Ionic Composition of the
Earth's Atmosphere With the Aid of Rockets and
Satellites, by V. G. Istomin. 1958.

RUSSIAN, per, Iskusstvennyye Sputniki Zemli,
No 2, 1959, pp 32-45. (papers presented at Moscow
Conference of CSAGI, Moscow, 1-9 Aug 1958).

Abstracts from "Artificial Earth Satellites," 11 pp.
UNCL

RUSSIAN, per, Iskusstvennyye Sputniki Zemli, No 3,
1959, pp. ~~1-12~~ 124.

NASA TT-F-8

Sci - Space Res
Apr 60

Artificial Earth Satellites, by
L. V. Kurnosova, ed.

RUSSIAN, bk, ^{K 1051}Issled Sputnik Zemli, Vol
or No 3.

CB

Sci - Sp Research
Apr 62

The Capture Problem in the Three-Body Restricted
Orbital Problem, by V. A. Yegorov, 16 pp.

RUSSIAN, per, Iskusstvennyye Sputniki Zemli,
No 3, Moscow, 1959, pp 3-12.

NASA TT F-9
OTS 61-27017
FDD/X-3969
JPLAC/Tr No 28

Sci-Space Research

May 60

115,799

Liberations of a Satellite, by V. V. Belotshiy,
34 pp.

RUSSIAN, per, Iskusstvennyye Sputniki Zemli,
No 3, Moscow, 1959, pp 13-31.

NASA TT P-10

Sci - Space Res

Jun 60

117,552

NASA TT F-45

National Aeronautics and Space Administration.

FIRST-ORDER PERTURBATIONS IN THE MOTION OF EARTH SATELLITES DUE TO OBLATENESS OF THE EARTH. V. F. Proskurin and Yu. V. Batrakov.

November 1960. 12p. OTS price, \$0.50.

(NASA TECHNICAL TRANSLATION F-45. Translation from *Iskusstvennyy Sputnik Zemli*, no. 3, 1959, p. 32-38 (USSR))

An analytical theory is presented for artificial earth satellites, on the assumption that the oblateness of the planet is small enough so that the perturbation function in powers of the oblateness can be limited to the term containing only the first powers of the oblateness of the earth. This portion of the perturbation function is expanded in powers of the eccentricity. Integration of the ordinary Lagrange equations yields analytical expressions of the first-order perturbations relative to the oblateness of all of the elements of the orbit, accurate to the fourth degree of the eccentricity inclusive.

Copies obtainable from NASA, Washington

- I. Proskurin, V. F.
- II. Batrakov, Yu. V.
- III. NASA TT F-45
- IV. *Iskusstvennyy Sputnik Zemli*, no. 3, 1959, p. 32-38 (USSR)

(Initial NASA distribution: 6, Astronomy; 7, Astrophysics; 16, Cosmochemistry; 17, Communications and sensing equipment, flight; 21, Geophysics and geodesy; 30, Physics, atomic and molecular; 31, Physics, nuclear and particle; 33, Physics, theoretical; 46, Space mechanics; 47, Satellites.)

132,634

SLA NASA 61-15118

NASA TT F-46

National Aeronautics and Space Administration.
PERTURBATIONS OF ORBITS OF ARTIFICIAL
SATELLITES DUE TO AIR RESISTANCE. Yu. V.
Batrakov and V. F. Proskurin. November 1960.
13p. OTS price, \$0.50.

(NASA TECHNICAL TRANSLATION F-46. Transla-
tion from Iskusstvennyy Sputnik Zemli, no. 3, 1959,
p. 39-47 (USSR))

615 TT-63-24298 (16p)
Presentation of a general form of the first-order per-
turbations in the elements of an elliptic satellite orbit,
caused by the resistance of the air, is undertaken.
It was assumed that the earth's atmosphere has a fully
spherical density distribution and that the attraction of
the earth can be replaced by the attraction of the
material point, placed at its center of inertia and
having the same mass as the earth. These assump-
tions, along with the secular perturbations, are used
to obtain faster perturbations whose periods do not
exceed the period of one rotation of the satellite.

Copies obtainable from NASA, Washington

- I. Batrakov, Yu. V.
- II. Proskurin, V. F.
- III. NASA TT F-46
- IV. Iskusstvennyy Sputnik Zemli, no. 3, 1959,
p. 39-47 (USSR)

(Initial NASA distribution:
6, Astronomy; 7, Astro-
physics; 16, Cosmochem-
istry; 17, Communications
and sensing equipment,
flight; 21, Geophysics and
geodesy; 30, Physics,
atomic and molecular;
31, Physics, nuclear and
particle; 33, Physics,
theoretical; 46, Space
mechanics; 47, Satellites.)

133,870
NASA

TT-64-16171

Vakhnin, V. M. and Beletskii, V. V.
ON THE OBSERVATION OF THE ARTIFICIAL
SATELLITE BY THE EXPECTATION METHOD.

[12]p 1red
Order from OTS, SLA, or ETC \$1.60 TT-64-16171

Trans. of [Iskusstvennye Sputniki Zemli] (USSR)
1959, v. 3, p. 47-53.

Another trans. is available from OTS, SLA, or ETC
\$1.60 as TT-61-11114 (10)p.

I. Vakhnin, V. M.
II. Beletskii, V. V.

(Engineering--Satellite Vehicles, TT, v. 12, no. 4)

Office of Technical Services

NASA TT F-48

National Aeronautics and Space Administration.
OBSERVATION OF AN ARTIFICIAL SATELLITE BY
THE EXPECTATION METHOD. V. M. Vakhnin and
V. V. Beletskiy. November 1960. 10p. OTS
price, \$0.50.

(NASA TECHNICAL TRANSLATION F-48. Transla-
tion from Iskusstvennyy Sputnik Zemli, no. 3, 1959,
p. 47-53 (USSR))

An expectation method is presented for predicting the
appearance of an artificial satellite within the obser-
vation range of the spotting equipment. For success-
ful application of the method, it is important to take
into account only one variable factor, namely, the
rate of orbit precession.

Copies obtainable from NASA, Washington

- I. Vakhnin, V. M.
- II. Beletskiy, V. V.
- III. NASA TT F-48
- IV. Iskusstvennyy Sputnik
Zemli, no. 3, 1959,
p. 47-53 (USSR)

(Initial NASA distribution:
6, Astronomy; 7, Astro-
physics; 16, Cosmochem-
istry; 17, Communications
and sensing equipment,
flight; 21, Geophysics and
geodesy; 30, Physics,
atomic and molecular;
31, Physics, nuclear and
particle; 33, Physics,
theoretical; 46, Space
mechanics; 47, Satellites.)

12-759
NASA

NASA TT F-47

National Aeronautics and Space Administration.
DEPENDENCE OF SECULAR VARIATIONS OF ORBIT
ELEMENTS ON THE AIR RESISTANCE. P. E.
El'yasberg. November 1960. 10p. OTS price,
\$0.50. (NASA TECHNICAL TRANSLATION F-47.
Translation from *Iskusstvennyy Sputnik Zemli*, no. 3,
1959, p. 54-60 (USSR))

OK TT-63-04295 (1211)
Presented is an extension of the idea, proposed by
I. M. Yatsunskiy, of expanding the secular variations
of the orbit elements in Bessel functions of imaginary
argument. This results in simple and illustrative
formulas which can be used to solve many problems,
such as determination of the dependence of the secular
variations of the orbit elements on the values of the
elements themselves, estimation of the accuracy of
determination of the air density from the measured
secular variations of the orbit elements, and so forth.

Copies obtainable from NASA, Washington

- I. El'yasberg, P. E.
- II. NASA TT F-47
- III. *Iskusstvennyy Sputnik Zemli*, no. 3, 1959,
p. 54-60 (USSR)

(Initial NASA distribution:
6, Astronomy; 7, Astro-
physics; 16, Cosmochemis-
try; 17, Communications
and sensing equipment,
flight; 21, Geophysics and
geodesy; 30, Physics,
atomic and molecular;
31, Physics, nuclear and
particle; 33, Physics, theo-
retical; 46, Space mechan-
ics; 47, Satellites.)

132,315

NASA

Puncture Problem at Cosmic Velocities, by
M. A. Lavrent'ev, 2 pp.

RUSSIAN, ^{bk} ~~per~~, Iskusstvennye Sputniki Zemli,
No 3, 1959, pp 61-65.

ARS
Apr 60

NASA

TT 40

TT-63-24297

Shklovskii, I. S. and Kurt, V. G.
 DETERMINATION OF ATMOSPHERIC DENSITY AT
 A HEIGHT OF 430 KM BY THE SODIUM VAPOUR
 DIFFUSION METHOD (Opredelenie Plotnosti Atmosfery
 na Vysote 430 KM Metodom Diffuzii Parov Natriya) tr.
 by J. W. Palmer. May 60 [14p] 16refs RAE Library
 Trans. no. 896.
 Order from OTS, SLA, or ETC \$1. 60 TT-63-24297

Trans. of Ikhosstvennye Sputniki Zemli (USSR) 1959,
 v. 3, p. 66-76.
 Another trans. is available from OTS or SLA \$1. 60 as
 TT-60-21443, NASA TT-F-15, Apr 60, 13p.

DESCRIPTORS: *Upper atmosphere, Density,
 Barometric pressure, Meteorological parameters,
 Sodium, Vapors, Diffusion, High altitude, Rockets.

For abstract see Technical Translations 4: 214, 1960
 (Earth Sciences--Atmosphere, TT, v. 11, no. 3)

I. Shklovskii, I. S.
 II: Kurt, V. G.
 III. RAE Trans-896
 IV. Royal Aircraft
 Establishment (Ct. Brit.)

Office of Technical Services

Some Results of the Determination of the
Structural Parameters of the Atmosphere
Using the Third Soviet Artificial Earth
Satellite, by V. V. Mikhnevich, B. S. Danilin,
A. I. Repnev, V. A. Sokolov, 7 pp.

RUSSIAN, per, *Izvestiya* ~~Sputniki Zemli~~,
No 3, 1959, pp 84-97.

NASA TT -13

ARS

Apr 60

115,536

Sai

CTE, SLA & ETC TT-63-24216 (1960)

NASA TT F-53

National Aeronautics and Space Administration.

RADIO-FREQUENCY MASS SPECTROMETER FOR
THE INVESTIGATION OF THE IONIC COMPOSITION
OF THE UPPER ATMOSPHERE. V. G. Istomin.

January 1961. 21p. OTS price, \$0.75.

(NASA TECHNICAL TRANSLATION F-53. Transla-
tion from Iskusstvennyy Sputnik Zemli, no. 3, 1959,
p. 98-112 (USSR))

Described is the device by which data were obtained
on the mass spectrum of positive ions of the iono-
sphere at altitudes up to 885 km using Soviet high-
altitude rockets and the third Soviet artificial satellite.
Single-row type grids used in the ion-source unit and
in the analyzer, as well as other unique features, are
described in detail.

- I. Istomin, V. G.
- II. NASA TT F-53
- III. Iskusstvennyy Sputnik
Zemli, no. 3, 1959,
p. 98-112 (USSR)

(Initial NASA distribution:
17, Communications and
sensing equipment, flight;
19, Electronics; 21, Geo-
physics and geodesy;
30, Physics, atomic and
molecular.)

137,863

FDD X-4926

NASA

Copies obtainable from NASA, Washington

Manometer Error Caused by Slight Blows in the
Shell of a Sputnik, by S. A. Kuchay
y.

RUSSIAN, bk, Iskusstvennyye Sputniki Zemli,
No 3, 1959, pp 113-117.

NASA TT 14

ITS 66-21442

Sci - Spac Res

132,276

Nov 60

The Determination of the Density of the Atmosphere
at an Altitude of 430 Kilometers by the Sodium Vapor
Diffusion Method, by I. S. Shklovskiy, V. G. Kurt.

bk

RUSSIAN, par, Izvestiennyye Sputniki Zemli,
No 3, 1959, pp 66-76.

NASA ET 15

Sci - Spac Res

132,284

Nov 60

Methods of Combating Interfering Currents That
Arise at the Input of an Electrostatic Fluxmeter
Operating in a Conducting Medium, by I. M.
Izvanitov, Ya. M. Shvartz, 4 pp.

RUSSIAN, per, Iskusstvennyye Sputniki Zemli, No 3,
1959, pp 77-83.

ARS
Apr 60

Sci

NASA

115,534

IT 16

On the Problem of the Interaction Between a
Satellite and the Earth's Magnetic Field, by
Yu. V. Zonov, 11 pp.

RUSSIAN, per, Izvestiya Sputniki Zemli,
No 3, Moscow, 1959, pp 118-124.

NASA TR F-37

Sci - Space Research

May 60

116,314

Kislík, M. D.

THE MOTION OF THE ARTIFICIAL SATELLITE IN
A NORMAL GRAVITY FIELD OF THE EARTH.

[1962] [20]p. 6 refs.

Order from OTS or SLA \$1.60

63-10312

Trans. of *Iskusstvennye Sputniki Zemli* (USSR) 1960,
v. 4, p. 3-17.

Another trans. is available free from Land-Air as
LTS-6. When supply is exhausted, order from OTS or
SLA \$3.60 as 61-27018, 1 May 61 [32]p.

DESCRIPTORS: *Satellite vehicles, *Orbital flight
paths, Gravity, Earth, Motion.

For abstract see Technical Translations 6: 349, 1961.

(Engineering--Satellite Vehicles, TT, v. 10, no. 3)

63-10312

I. Kislík, M. D.

Office of Technical Services

TT-63-24322

El'yasberg, P. E. and Yastrebov, V. D.
DETERMINATION OF UPPER-ATMOSPHERE DENSITY
FROM THE RESULTS OF THE OBSERVATIONS OF
SPUTNIK 3 (Opredelenie Plotnosti Verkhnei Atmosfery
po Rezul'tatam Nablyudenii za Poletom Tret'ego Sovetskogo
iskusstvennogo Sputnika Zemli) tr. by J. W.
Palmer. Feb 61 [19p] 4refs RAE Library Trans.
no. 937; AD-258 609.

Order from OTS, SLA or ETC \$1.60 TT-63-24322

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1960,
v. 4, p. 18-30.

Another trans. is available from OTS or SLA \$2.60 as
TT-61-27991, ARGMA Trans-16-61, 21 Jul 61 [23]p.
(Abstract available)

DESCRIPTORS: *Upper atmosphere, Density, Deter-
mination, *Atmospheric sounding, *Satellites
(Artificial), Orbital trajectories, Numerical analysis,
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